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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known

Application Number	09/882,101
Filing Date	06/15/2001
First Named Inventor	ANDREACO, et al.
Group Art Unit	2878
Examiner Name	
Attorney Docket Number	24017.02

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
OG	AA	2,910,592		Armistead	10-27-1959	
OG	AB	3,432,660		Anger	03-11-1969	
OG	AC	3,851,177		Van Dijk, et al.	11-26-1974	
OG	AD	3,899,675		Floyd	08-12-1975	
OG	AE	3,919,556		Berninger	11-11-1975	
OG	AF	3,955,088		Muehllehner, et al.	05-04-1976	
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OG	AI	4,095,107		Genna, et al.	06-13-1978	
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OG	AK	4,323,778		Wykes, et al.	04-06-1982	
OG	AL	4,398,092		Carlson	08-09-1983	
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OG	AO	4,675,526		Rogers, et al.	06-23-1987	
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OG	AT	4,749,863		Casey, et al.	06-07-1988	

### FOREIGN PATENT DOCUMENTS

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Sheet	2	of	6	Attorney Docket Number	24017.02

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OG	AU	4,750,972		Casey, et al.	06-14-1988	
OG	AV	4,837,439		Genna, et al.	06-06-1989	
OG	AW	4,843,245		Lecomte	06-27-1989	
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OG	BL	5,471,061		Moyers, et al.	11-28-1995	
OG	BM	5,479,021		Morgan, et al.	12-26-1995	
OG	BN	5,521,378		Roscoe, et al.	05-28-1996	

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Examiner Signature	Date Considered
<i>Ohle Gabe</i>	12/19/02

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09/882,101

06/15/2001

ANDREACO, et al.

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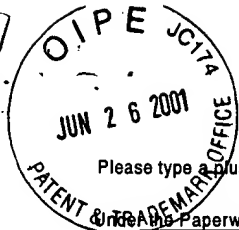
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		Application Number	09/882,101		
		Filing Date	06/15/2001		
		First Named Inventor	ANDREACO, et al.		
		Group Art Unit			
		Examiner Name			
Sheet	4	of	6	Attorney Docket Number	24017.02

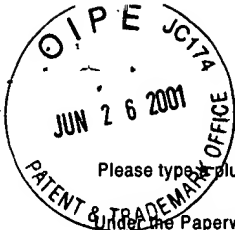
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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OG	BV	M.E. Phelps, et al.: "Positron Emission Tomography and Autoradiography," 296-271, Raven Press, 1986	
OG	BW	R.D. Evans: "The Atomic Nucleus," Kreiger, 1955	
OG	BX	J.C. Moyers: "A High Performance Detector Electronics System for Positron Emission Tomography," Master Thesis, University of Tennessee, Knoxville, TN 1990	
OG	BY	R.A. DeKemp, et al.: "Attenuation Correction in PET Using Single Photon Transmission Measurement," Med. Phys., Vol. 21, 771-778, 1994	
OG	BZ	S.R. Cherry, et al.: "3D-PET Using a Conventional Multislice Tomograph Without Septa," J1. C.A.T., 15(4)655-668, 1991	
OG	CA	J.S. Karp, et al.: "Singles Transmission in Volume-Imaging PET With a 137 Cs Source," Phys. Med. Biol. Vol. 40, 929-944, 1995	
OG	CB	S.K. Yu, et al.: "Single-Photon Transmission Measurements in Positron Tomography Using 137 Cs," Phys. Med. Biol. Vol. 40, 1255-1266, 1995	
	CC	<del>G.F. Knoll: "Radiation Detection and Measurement," John Wiley &amp; Sons, Inc.</del>	
OG	CD	S.R. Cherry, et al.: "Optical Fiber Readout of Scintillator Arrays Using a Multi-Channel PMT: A High Resolution PET Detector for Animal Imaging," IEEE Transactions on Nuclear Science, Vol. 43, No. 3, 1932-1937, 06-1996	
OG	CE	J.A. McIntyre, et al.: "Construction of a Positron Emission Tomograph with 2.4 mm Detectors", IEEE Transactions on Nuclear Science, Vol. 33, No. 1, 425-427, February 1986	
OG	CF	M. Dahlborn, et al.: "Performance of a YSO/LSO Phoswich Detector for use in a PET/SPECT System", IEEE Transactions on Nuclear Science, Vol. 44, No. 3, 1114-1119, June 1997	

Examiner Signature	<i>Oliver Goben</i>	Date Considered	12/19/02
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			First Named Inventor	ANDREACO, et al.	
			Group Art Unit	2878	
			Examiner Name		
Sheet	5	of	6	Attorney Docket Number	24017.02

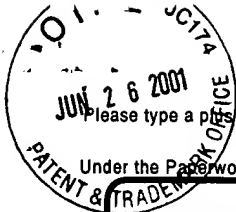
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
OG	CG	G.B. Loutts, et al.: "Czochralski growth and characterization of (Lu 1-x Gd x)2 SiO 5 single crystals for scintillators", Journal of Crystal Growth 174 (1997), 331-336		
	CH	<del>M. Schmand, et al.: "Performance results of a new DOI detector block for a High Resolution PET - LSO Research Tomograph HRRT", Source unknown</del>		
OG	CI	A.C. Kak and M. Slaney: "Principles of Computerized Tomographic Imaging", IEEE Press, 1987		
OG	CJ	J.A. Sorenson and M.E. Phelps: "Physics in Nuclear Medicine" W.B. Saunders Company, 1987		
OG	CK	P. Tan, et al.: "A Scanning Line Source for Simultaneous Emission and Transmission Measurements in SPECT", The Journal of Nuclear Medicine, Vol. 34, No. 10, October 1993		
OG	CL	D.L. Bailey, et al.: "Improved SPECT Using Simultaneous Emission and Transmission Tomography", The Journal of Nuclear Medicine, Vol. 28, No. 5, May 1987		
OG	CM	H.M. Hudson and R.S. Larkin: "Accelerated Image Reconstruction Using Ordered Subsets of Projection Data", IEEE Transactions on Medical Imaging, Vol. 13, No. 4, December 1994		
OG	CN	L.T. Chang: "A Method for Attenuation Correction in Radionuclide Computed Tomography", IEEE Transactions on Nuclear Science, Vol. NS-25, No. 1, February 1978		
OG	CO	E.F. Hollinger, et al.: "Using Fast Sequential Asymmetric Fanbeam Transmission CT for Attenuation Correction of Cardiac SPECT Imaging", The Journal of Nuclear Medicine, Vol. 39, No. 8, August 1998		
OG	CP	K. Lange, et al.: "A Theoretical Study of Some Maximum Likelihood Algorithms for Emission and Transmission Tomography", IEEE Transactions on Medical Imaging, Vol. MI-6, No. 2, June 1987		
OG	CQ	G.T. Gullberg, et al.: "An Attenuation Projector-Backprojector for Interactive SPECT Reconstruction", Phys. Med. Biol., 1985, Vol. 30, No. 3, 799-816		

Examiner Signature	<i>Debra Gabe</i>	Date Considered	12/19/02
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Sheet	6	of	6	Attorney Docket Number	24017.02

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CG	CR	K. Lange and R. Carson, "EM Reconstruction Algorithms for Emission and Transmission Tomography", Journal of Computer Assisted Tomography 8(2): 306-313, April 1984	
	<del>CS</del>	<del>C.A. Burnham, et al.: "MGH Cylindrical PET Detector Characteristics", 1644-1647</del>	

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